



Metro Nashville

DISTRICT ENERGY SYSTEM

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In This Edition:

- ① [2004- Landmark Year for District Energy in Nashville](#)
- ① [Customer Profile - Ryman Auditorium](#)
- ① [Community happenings...](#)
- ① [General Manager's Corner By John Schaffer](#)
- ① [Meet Mike Bradley: Metro Liaison for DES](#)

Visit our Web site:
www.nashville.gov/des

Purchase Thermal equipment online:
ebid.nashville.gov/auction

Small Business Energy Loan Program

The Tennessee Small Business Energy Loan Program (SBELP) is offering low-interest loans of up to \$100,000 to qualified Tennessee-based businesses to help upgrade the energy efficiency of their buildings, plants and manufacturing processes. Firms with fewer than 300 employees or less than \$3.5 million in annual gross sales or receipts are eligible to apply for loans specifically to cover the costs of energy efficiency measures, upgrades and/or equipment that can be shown to save energy or decrease energy demand.

Administered by the Energy

2004- Landmark Year for District Energy in Nashville

This year has been a historic one for Metro Nashville's District Energy System (DES). It was 30 years ago when the old Thermal Transfer Plant began heating and cooling downtown buildings. Three decades later, the energy plant is housed in a new, state-of-the-art facility that has given a major boost to downtown development.



Mayor Purcell and Constellation Energy's Greg Jarosinski open new plant.

Mayor Bill Purcell signaled the official opening of the new facility at a ribbon-cutting

January 26, 2004—six months earlier than planned.

Representatives from DES and Constellation Energy, city officials and downtown customers were on hand for the celebration.

Significantly, customers experienced no unplanned outages during a seamless transition from the old to the new system, thanks to great teamwork by everyone at Thermal, DES, and Constellation.

Said Jim Greer, senior director of facilities for the Gaylord Entertainment Center, "Initially, we were faced with a lot of uncertainty as construction moved forward, but the DES team responded to the our every need. Your service and quality of product far exceeded our expectations."

Nashville is now one of approximately 30 American cities enjoying the energy reliability, efficiency and cost-saving benefits of district energy.

Division of the Tennessee Department of Economic and Community Development, loans can be repaid over a period not to exceed seven years at 3 percent annual interest.

For more information, call (800) 342-1340 or visit the SBELP Web page at http://www.state.tn.us/ecd/energy_sbelp.htm

Beverly Briley Courthouse to Use DES

Construction is proceeding on the new Beverly Briley Courthouse, which will house the Davidson County Criminal Courts and the criminal division of the Metro General Sessions Courts. Metro decided that the Courthouse will use DES chillers and boilers to provide for its heating and cooling needs. The expansion of the DES distribution system to meet the Courthouse's energy demands began in June and is scheduled to be completed this November. The building itself will occupy 235,000 square feet with six floors of court and office space. It is scheduled for completion in December 2005.

Customer Profile - Ryman Auditorium

Since its grand reopening in 1994, the Ryman Auditorium has won numerous honors and awards, most recently the prestigious Pollstar Concert Industry Award for "Theatre of the Year."



Selected from a list of nominees that included New York's Radio City Music Hall, the Ryman is the smallest and oldest venue ever to win this coveted recognition. Ryman General Manager Pam Matthews, pictured, accepted the award at a ceremony in Hollywood in February.

Originally built as a church in 1892, the Ryman was home to the Grand Ole Opry from 1943-1974, earning it world-wide renown as the Mother Church of Country Music. In 1974, the Opry moved and the Ryman was vacant for the next 20 years. In 1994, it was restored and reopened with great fanfare as a national showplace. Since then, numerous artists, including Johnny Cash, Merle Haggard, George Jones, Faith Hill and many others have performed inside this legendary landmark.

This year, the 10th Anniversary of its restoration and reopening, the Ryman will celebrate with concerts in September, October, November and December. For tickets visit the Ryman Box Office, web site www.ryman.com , Ticketmaster outlets or call (615) 255-9600.

Nashville Symphony Signs Services Agreement for New Concert Hall



As part of continuing efforts to create a perfect acoustic environment, the new \$120 million Schermerhorn Symphony Center has chosen district energy service to handle its heating and cooling needs. District energy service will mean less noise and mechanical interference in addition to greater energy efficiency for the 1,900-seat facility, scheduled to open in September 2006.

Metro Nashville District Energy System Wins Awards

The Metro Nashville District Energy System was the recipient of two awards at this year's International District Energy Association (IDEA) annual conference.

DES won a gold medal for the number of new buildings committed to using a district energy system and a silver medal for total new square footage committed. With 36 new customers, Metro Nashville DES tied with Energy Systems Company of Omaha, Nebraska, for new customer sign-ups and DES' 8.46 million square feet of newly committed space in Nashville placed it

Community happenings...



On July 25 a crowd of Nashvillians watched as one of the last iconic pieces of the Nashville Thermal Transfer Corp., the 199-foot stack, tumbled to the ground. For media coverage of the demolition, click here: <http://www.nashville.gov/des/news.htm>



Constellation Nashville District Energy (CNDE) was a proud sponsor of this year's Earth Day Festival, held April 17th at Centennial Park. With a theme of "Care for the Cumberland," the event provided a great opportunity for DES, which sits right on the banks of the Cumberland River, to promote a message of environmental awareness and conservation.



The First Annual DES Golf Tournament was a great success. The July 17th tournament attracted 92 players. Thanks to all the customers, employees and business partners who participated and

second among district energy systems nationwide.

As a result of a requirement by the Metro Nashville Council, DES offers Nashville customers rates that are 10 percent below the equivalent rates for buildings with their own heating and cooling systems.

The IDEA organization has nearly 700 members from 12 countries and is dedicated to providing reliable, economical, efficient and environmentally sound district energy services.

congratulations to the winning team of (shown left to right) David Cornwell (Nashville Machine), Mose Ramieh III (Power & Generation Testing), Jeff Osburn (First Trust Bank), and Mike Maxwell (CNDE) .

General Manager's Corner By John Schaffer

The past two years have provided some exciting times for DES. Since May 2002, when we watched a fire destroy the waste-to-energy capability of the old Thermal plant, our customers have seen the outdated Thermal facility replaced with a new, state-of-the-art facility, dramatically increasing the level of reliability and efficiency of the system.



The transition to DES also has resulted in tremendous taxpayer relief and provides capacity for future growth—and, in many cases—lower customer rates. This is all the more impressive when you consider some of the work that has gone on behind the scenes.

In the past, repairs to the Energy Distribution System (EDS) were more reactive than proactive. But early on, the Metro DES team recognized how prudent it was to upgrade the EDS to ensure a level of reliability similar to that of the new Energy Generation Facility (EGF). This required a number of projects to be completed concurrent with EGF construction:

- The team replaced and tied 600 feet of piping from in front of the Thermal plant to the tunnel at First Avenue and Broadway. The 26-year-old section of pipe served as the tie-in point for steam and chilled water from Thermal, and the new piping will be the single artery for getting product from the new EGF to DES customers.
- During the interconnection outage, 26 chilled water division valves were installed, seven steam valves were replaced and three additional steam valves were installed. These division valves now allow us to isolate sections of the EDS for repair rather than shutting down service to all customers on the system.
- In January 2003, a leaking condensate line in Riverfront Park was slip-lined with a smaller line to service the Wildhorse Saloon, resulting in substantial cost savings and minimizing the need for excavation.

- Several areas of the condensate piping had in the past six years been repaired with fiberglass pipe, which has proven not to be the best choice for our application. Since May 2003, more than 760 feet of fiberglass pipe has been replaced on Third Avenue, Fifth Avenue and Deaderick Street. The few remaining sections of fiberglass piping will be replaced before the end of the summer.
- Problems with a manhole on Fifth Avenue were corrected, and the concrete structure was rehabilitated this past December.

Projects underway include:

- Fourth Avenue tunnel rehabilitation
- Sheraton Hotel decoupling
- Tennessee Tower decoupling
- Metro Courthouse and Beverly Briley Courthouse rehabilitation
- Replacing and upgrading outdated customer meters to improve billing accuracy and efficiency. The new, state-of-the-art customer-metering package project is scheduled to be completed in this fiscal year.

All of this work has helped make downtown Nashville the envy of other cities for having one of the finest district energy systems in the country. This is something everyone in Nashville should be proud of and can only help fuel the city's continued growth.

John Schaffer
General Manager

Meet Mike Bradley: Metro Liaison for DES

Michael Bradley, whose public service career spans more than 35 years in state and local government, is the

Metro liaison for the District Energy System. Bradley works with DES' operating contractor and project administration consultant to ensure that system customers are receiving the service they need. He helps manage the accounting process, provides liaison services for Metro Departments, works with system expansion projects as new buildings are brought into the District Energy System.



Bradley appreciates the opportunity to work with DES because of its importance to the economic and development future of downtown Nashville.

“Hopefully, our efforts today will bring great benefits to the downtown district for years to come,” he said. “I take great satisfaction in seeing the growth of the DES and in helping to provide an energy system for downtown government buildings and businesses that is efficient, cleaner for the environment, and more cost-effective. It is a model system, and a significant investment in the future of downtown Nashville.”

Bradley’s past governmental experience includes work for the Metro Department of Children’s Services, the Tennessee Department of Mental Health, and the Tennessee Board of Probation and Parole, where he served as executive director. He also worked in the private sector for Combustion Engineering, Inc.

He holds a B.A. degree from the University of Tennessee at Chattanooga and has done postgraduate work in public administration. He is a veteran of the United States Navy.

Metro Nashville District Energy System
90 Peabody Street
Nashville, TN 37210
www.nashville.gov/des

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